

BILL BEAUREGARD
ASSISTANT DIRECTOR OF PUBLIC
WORKS - UTILITIES

Town of Westerly
Rhode Island
PUBLIC WORKS



68 White Rock Road
Westerly, RI 02891
TEL: (401) 348-2561
FAX: (401) 596-9512
pcorina@westerlyri.gov

Demolition of Residential Building

RFQ Number: 2018 – 050

ADDENDUM NO. 1 – August 2, 2018

To: All Known Bid Document Holders
From: Bill Beauregard
Assistant Director of Public Works - Utilities - Town of Westerly
68 White Rock Road
Westerly, RI 02891

The following items represent additional information provided, changes, amendments or clarifications to the Contract Bid Documents for the above referenced project:

- 1.) An asbestos survey been done and filed with the state department.

Please see attached Asbestos Abatement Plan

Please see attached RI DOH Asbestos Plan Approval Correspondence

- 2.) The bid documents note that the bid is to be all inclusive. The property will be cleared of environmental concerns. The asbestos removal will be performed prior to the demolition work being performed by:

AA Asbestos Co. Inc
R-1307 Hartford Ave.
Johnston RI 02919

All other terms and conditions of this bid remain unchanged.

The above clarifications and information does not warrant reissuance of any portions of the Bid Documents (including Bid Form). Prospective Bidders should acknowledge receipt and acceptance of Addendum No.1 with executed copy of each addenda returned with the executed bid form.

Bidder acknowledges receiving Addendum No. 1 dated August 2, 2018 and considers the information, changes and clarifications to be made part of the Bid Contract Documents.

Addendum No.1:

Received and Accepted By: Contractor: _____

Signed By: _____ Date: _____

**ASBESTOS ABATEMENT PLAN
RESIDENTIAL DWELLING
15 TOWER STREET
WESTERLY, RHODE ISLAND
PROJECT NO. 201800015**

Prepared for

Town of Westerly - Department of Utilities
Attention: Mr. Paul Corina
65 White Rock Road
Westerly, RI 02891

Prepared by

Bock and Clark Environmental
889 Boston Neck Road, Suite 2
Narragansett, RI 02865
TEL: 401-465-2801

February 14, 2018

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I RI State Asbestos Abatement Form ASB-16

II RI State Asbestos Abatement Forms ASB-16A

Abatement Area 1 – Basement – Approximately 10 square feet of thermal system insulation (TSI) paper located above the boiler and approximately 16 square feet of transite board attached to the ceiling adjacent to the chimney.

Abatement Area 2 – First Floor Bathroom – Approximately 34 square feet of flooring material.

Abatement Area 3 – Roof Areas – Approximately 164 linear feet of black sealant around the perimeter of the two southern flat roofs and along the portion of the side porch roof attached to the dwelling, approximately 150 square feet of roofing (top and bottom layers) associated with the side porch roof and approximately 180 square feet of roofing associated with the front porch roof.

III RI State Asbestos Abatement Form ASB-16B

IV Attachments:

"Asbestos Abatement Plan" for Residential Dwelling, 15 Tower Street, Westerly, RI, dated February 14, 2018

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

Town of Westerly

2. Application Prepared By:

Vincent L. Jacques

RI certification No: AAC-409 PD

Telephone No: (401) 465-2801

(Area code, No., Ext.)

3. Building Owner's Mailing Address and Telephone Number:

Street: 45 Broad Street

City/Town: Westerly

Zip: 02891

Telephone No: 401-348-2561

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: Mr. Paul Corina

Telephone No: 401-348-2561

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): Residential Dwelling

Street: 15 Tower Street

City/Town: Westerly Zip: 02891

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____

(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: To be determined R.I. License No.: _____

8. Estimated Starting Date of Abatement Work: As soon as the plan is approved and all notifications have been made.

(Month) (Day) (Year)

9. Estimated Completion Date of Abatement Work: Expected to take one week to complete.

(Month) (Day) (Year)

10. Type of Asbestos Abatement: (Check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Removal | <input type="checkbox"/> Enclosure |
| <input type="checkbox"/> Encapsulation | <input checked="" type="checkbox"/> Demolition |
| <input type="checkbox"/> Operations and Maintenance Only | <input type="checkbox"/> Other (Specify) |

11. Type of Building:

- ☐ School
☒ Privately Owned Building
☐ Publicly Owned Building
☐ Residence
☐ Other (Specify) _____

12. Building Access:

- ☐ Public Access ($\geq 25\%$ of Building Area)
☐ Limited Public Access ($< 25\%$ of Building Area)
☒ No Public Access

13. Bulk Sample Collection and Analysis:

A). Person collecting bulk samples:

Name: Brian A Piccolo RI Certification No.: AAC-0657 IS

B). Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☐ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

☒ Other (Specify) Representative Sampling

C). Laboratory performing the analysis of the bulk samples

Name: Asbestos Identification Laboratory Inc. RI Certification No.: AAL-0121

D). Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☒ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A). Person collecting pre-abatement air samples:

Name: Brian Piccolo Affiliation: Bock and Clark Environmental

B). Laboratory performing analysis of pre-abatement air samples.

Name: Bock and Clark Environmental RI Certification No.: AAL-125

C). Methodology used in the collection and analysis of pre-abatement samples:

(X) NIOSH Method 7400 [Most Current Revision]

() OSHA 29 CFR 1926.1101 – Appendix A & B

() Other (Specify) _____

-
15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined by contractor

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined by contractor

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: _____

Affiliation: _____

17. In-Process & Clearance Air Sampling:

- A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
See AAP
- B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
See AAP
- C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
See AAP
- D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
See AAP

-
18. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Abatement Area 1 – Basement – Approximately 10 square feet of thermal system insulation (TSI) paper located above the boiler and approximately 16 square feet of transite board attached to the ceiling adjacent to the chimney.

Abatement Area 2 – First Floor Bathroom – Approximately 34 square feet of flooring material.

Abatement Area 3 – Roof Areas – Approximately 164 linear feet of black sealant around the perimeter of the two southern flat roofs and along the portion of the side porch roof attached to the dwelling, approximately 150 square feet of roofing (top and bottom layers) associated with the side porch roof and approximately 180 square feet of roofing associated with the front porch roof.

-
19. I certify that this plan was prepared by me and I am responsible for its content.

Signature: Vincent P. Giguere Date 2/14/18
(Month) (Day) (Year)

Affiliation: BOCK AND CLARK ENV, LLC

20. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| () Operation & Maintenance Only | \$ 75 |
| () Up to One (1) NESHAP Unit | \$ 75 |
| (X) Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| () Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| () Over Fifty (50) NASHAP Units | \$ 900 |

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 15 Tower Street, Westerly, RI

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Abatement Area 1 – Basement

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Remove - Approximately 10 square feet of TSI paper located above the boiler and approximately 16 square feet of transite board attached to the ceiling adjacent to the chimney.

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

See Figure

(4) PROPOSED REMEDIES:

(A) Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

See AAP

(4) PROPOSED REMEDIES (cont.):

(B) Will any portion of this area be abated by use of B.8 work procedures?

(X) Yes () No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 [REMOVAL] _____

B.8.2 & B.8.4 [ENCAPSULATION] _____

B.8.2 & B.8.5 [ENCLOSURE] _____

B.8.6 [DEMOLITION] Approximately 10 square feet
of TSI paper located above the boiler and approximately 16 square feet of transite
board attached to the ceiling adjacent to the chimney.

B.8.7 [GLOVEBAG] _____

B.8.8 [ASPHALT ROOFING] _____

(C) Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

() Yes (X) No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

(D) Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

() Yes (X) No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

(E) Will any RACM remain in this area after abatement?

() Yes (X) No () Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). See AAP

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 15 Tower Street, Westerly, RI

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Abatement Area 2 – First Floor Bathroom

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Remove - Approximately 34 square feet of flooring material.

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

See Figure

(4) PROPOSED REMEDIES:

(A) Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

See AAP

(4) PROPOSED REMEDIES (cont.):

(B) Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	_____
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	<u>Approximately 34 square feet</u> <u>of flooring material.</u>
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASPHALT ROOFING]	_____

(C) Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

(D) Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

(E) Will any RACM remain in this area after abatement?

☐ Yes ☒ No ☐ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). See AAP

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health
Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 15 Tower Street, Westerly, RI

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Abatement Area 3 – Roof Areas

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Remove - Approximately 164 linear feet of black sealant around the perimeter of the two southern flat roofs and along the portion of the side porch roof attached to the dwelling, approximately 150 square feet of roofing (top and bottom layers) associated with the side porch roof and approximately 180 square feet of roofing associated with the front porch roof.

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

See Figure

(4) PROPOSED REMEDIES:

(A) Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

See AAP

(4) PROPOSED REMEDIES (cont.):

(B) Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	_____
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASPHALT ROOFING]	<u>Approximately 164 linear feet</u>

of black sealant around the perimeter of the two southern flat roofs and along the portion of the side porch roof attached to the dwelling, approximately 150 square feet of roofing (top and bottom layers) associated with the side porch roof and approximately 180 square feet of roofing associated with the front porch roof.

(C) Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

(D) Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

(E) Will any RACM remain in this area after abatement?

☐ Yes ☒ No ☐ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). See AAP

AGENCY USE ONLY

RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS ABATEMENT PLAN

Facility: Residential Dwelling

Address: 15 Tower Street

City/Town: Westerly Zip: 02891 Amendment Phase No: _____

Abatement Plan Written By: Vincent L. Jacques Certification No: AAC-409PD

Summary of specific waivers/variances being requested: _____

Type of Asbestos Abatement () Removal () Enclosure () Encapsulation
(X) Demolition () Glovebag (X) Asphalt Roofing
() Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? () Yes (X) No

If yes, Indicate Notice/Building Evaluation No(s): _____

Contractor: To Be Determined R.I. License No.: _____

Estimated Starting Date: As soon as the plan is approved and all notifications have been made.

Pre-Abatement Sampling Information

Bulk Samples Collected By: Brian Piccolo Certification No: AAC-0657 IS

Bulk Samples Analyzed By: Asbestos Identification Laboratory Certification No: AAL-121

Air Samples Analyzed By: Bock and Clark Environmental Certification No: AAL-125

Clearance Air Sampling Information

Air Samples to be Collected By: Not Applicable

Air Samples to be Analyzed By: Not Applicable Certification No: _____

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: _____ Title: _____
(Signature of Building Owner or Agent)

(Typed/Printed Name of Certifier) Date: _____

Subscribed and sworn before me this _____ day of _____, 20____

My Commission Expires: _____

(Notary Public)

AFFIX NOTARY SEAL HERE

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1.0 Introduction

This asbestos abatement plan is being submitted on behalf of:

Town of Westerly - Department of Utilities
Attention: Mr. Paul Corina
65 White Rock Road
Westerly, RI 0289

to address the requirements of Part C of the Rhode Island Department of Health's *Rules and Regulations for Asbestos Control* (R23-24.5-ASB), as amended September 2012. This asbestos abatement plan has been developed for the removal of the asbestos containing materials (ACMs) from three (3) abatement areas associated with the residential dwelling located at 15 Tower Street in Westerly, RI. The approximate quantities of the ACMs are summarized in Section 4.0 of this asbestos abatement plan.

The proposed abatement project must be performed in accordance with all applicable local, state and federal regulations concerning asbestos removal, transportation and disposal, with the possible exception of waivers being requested under this abatement plan.

2.0 Bulk Sampling Information (see Section 13 of Form ASB-16)

The ACMs to be abated were characterized by bulk samples collected by Brian Piccolo of Bock and Clark Environmental (Bock and Clark) (Rhode Island Department of Health (RIDOH) Certification No AAC-0657 IS) during a survey at the subject property on Thursday, February 1, 2018.

Samples collected during the survey were submitted to and analyzed by Asbestos Identification Laboratory (AIL) in Woburn, Massachusetts. AIL is accredited through the National Voluntary Laboratory Accreditation Program (NVLAP# 200919-0) and with the RIDOH (AAL – 121). All samples were analyzed in accordance with U.S. Environmental Protection Agency (EPA) recommended protocol ("Follow-up to the Interim Method for Determination of Asbestos in Bulk Insulation Samples" - EPA 600/R-93/116 method "Visual Estimate") using polarized light microscopy (PLM) supplemented by dispersion staining techniques.

A total of ninety (90) samples were collected and submitted for analysis. Appendix B contains copies of the analytical results by AIL, indicating the asbestos content of the material targeted for abatement.

3.0 Air Sampling

3.1 Pre-abatement Air Sampling (refer to Section 14, Form ASB-16)

Brian Piccolo of Bock and Clark collected one pre-abatement air sample, on Thursday, February 1, 2018 from within the basement area. Bock and Clark believes that this air sample is representative of the abatement areas included within this plan. The sample was collected by sampling over 1,200 liters of air at appropriate flow rate and was submitted under appropriate chain-of-custody to Bock and Clark's licensed laboratory for analysis using phase contrast microscopy

(PCM) using NIOSH Method 7400. As can be seen in the appendices of this report, the collected pre-abatement air sample revealed airborne fiber concentrations of 0.002 fibers per cubic centimeter (f/cc). **Appendix A** contains copies of the analytical results.

3.2 Contiguous Area Sampling During Abatement

The proposed abatement is for the residential dwelling located at 15 Tower Street in Westerly, RI, which will be vacant at the time of the abatement and is scheduled to be demolished. As such, Bock and Clark recommends that there be no continuous in-process air sampling conducted in the immediate vicinity of work-area while the abatement is taking place, and that personnel air monitoring of Asbestos Abatement Workers, which demonstrates compliance with OSHA 29 CFR 1926.1101 (formerly OSHA 29 CFR 1926.58(f)), shall be conducted throughout the entirety of the asbestos abatement project by the chosen contractor.

3.3 Clearance Air Testing

The proposed project consists of three (3) abatement areas associated with the residential dwelling located at 15 Tower Street in Westerly, RI, which will be vacant at the time of the abatement and is scheduled to be immediately demolished following the asbestos abatement. According to the property owner representative, no one will be entering the building following the asbestos abatement. As such, it is proposed that personnel air monitoring of Asbestos Abatement Workers, which demonstrates compliance with the provisions of OSHA 29 CFR 1926.1101 (formerly OSHA 29 CFR 1926.58(f)), be used in lieu of the clearance air sampling requirements contained in Paragraph B.8.2(p) of the RIDOH's R23-24.5-ASB.

Bock and Clark recommends that a final visual clearance inspection within the containment areas after the abatements have been completed and prior to the building demolition, to ensure that the ACMs associated with this plan have been properly abated. After a final visual inspection has been completed, the building shall be closed to prevent access pending demolition and warning signs shall remain in place until demolition begins.

4.0 Description of Abatement Area

The proposed project consists of three (3) abatement areas located at the residential dwelling, located at 15 Tower Street in Westerly, RI.

- **Abatement Area 1 – Basement** – Approximately 10 square feet of thermal system insulation (TSI) paper located above the boiler and approximately 16 square feet of transite board attached to the ceiling adjacent to the chimney (see Figure).
- **Abatement Area 2 – First Floor Bathroom** – Approximately 34 square feet of flooring material (see Figure).
- **Abatement Area 3 – Roof Areas** – Approximately 164 linear feet of black sealant around the perimeter of the two southern flat roofs and along the portion of the side porch roof attached to the dwelling,

approximately 150 square feet of roofing (top and bottom layers) associated with the side porch roof and approximately 180 square feet of roofing associated with the front porch roof (see Figure).

5.0 Interim Operations and Maintenance Program

An O & M Program is designed to (1) clean up asbestos fibers previously released, (2) prevent future release by minimizing ACM disturbance or damage, and (3) monitor the condition of the ACM. The program should continue until all ACM is removed or the building is demolished, and should be implemented as soon as possible.

As the residential dwelling will be vacant at the time of the abatement and is scheduled to be demolished immediately after the asbestos abatements, an O&M Program does not appear warranted at this time for this building.

6.0 Specific Abatement Proposal

This abatement plan has been prepared for the removal of the ACM specified in Section 4.0 of this abatement plan, which has been developed for the residential dwelling located at 15 Tower Street in Westerly, RI. The ACM location(s) are depicted in the Figure associated with this plan.

An asbestos contractor licensed in the State of Rhode Island must perform all asbestos abatement work, and all work must be performed in accordance with all applicable local, state, and federal regulations.

Asbestos removal will be performed following the appropriate approval of this plan by the RI Department of Health (RIDOH). The contractor, provided with the appropriate notifications, will then perform the asbestos abatement. It is anticipated that the removal project will take approximately one week to complete.

The ACMs to be abated in Areas 1 and 2 will be completed in accordance with B.8.6 of the RI Rules and Regulations for Asbestos Control, a copy of which has been attached to this plan.

The ACMs to be abated in Area 3 will be completed in accordance with B.8.8 of the RI Rules and Regulations for Asbestos Control, a copy of which has been attached to this plan.

7.0 Criteria for Selection of Contractor

An asbestos abatement contractor has not been chosen for this project at this time. The chosen contractor for this project must be licensed by the State of Rhode Island in accordance with Section B.1 of the Rules and Regulations for Asbestos Control, and must maintain a Contractor's License. The contractor, once chosen, must file appropriate notification with the RIDOH.

8.0 Authorized Disposal Facility

The contractor will select the authorized asbestos waste facility. The chosen contractor will forward the name of the approved disposal site to the RI Department of Health.

9.0 Methods for Insuring Compliance

See Sections 4.B and 4.D of Form ASB-16A.

10.0 Monitoring Compliance

The property owner representative will monitor compliance with the asbestos abatement plan.

11.0 Monitoring Requirements (see Section 17 A-D of Form ASB-16)

11.1 In-Process Air Sampling During Abatement

The proposed abatement is for the residential dwelling located at 15 Tower Street in Westerly, RI, which will be vacant at the time of the abatement and is scheduled to be demolished. As such, Bock and Clark recommends that there be no continuous in-process air sampling conducted in the immediate vicinity of work-area while the abatement is taking place, and that personnel air monitoring of Asbestos Abatement Workers, which demonstrates compliance with OSHA 29 CFR 1926.1101 (formerly OSHA 29 CFR 1926.58(f)), shall be conducted throughout the entirety of the asbestos abatement project by the chosen contractor.

11.2 Clearance Inspection

The proposed project consists of three (3) abatement areas associated with the residential dwelling located at 15 Tower Street in Westerly, RI, which will be vacant at the time of the abatement and is scheduled to be immediately demolished following the asbestos abatement. According to the property owner representative, no one will be entering the building following the asbestos abatement. As such, it is proposed that personnel air monitoring of Asbestos Abatement Workers, which demonstrates compliance with the provisions of OSHA 29 CFR 1926.1101 (formerly OSHA 29 CFR 1926.58(f)), be used in lieu of the clearance air sampling requirements contained in Paragraph B.8.2(p) of the RIDOH's R23-24.5-ASB.

Bock and Clark recommends that a final visual clearance inspection within the containment area after the abatement has been completed and prior to the building demolition, to ensure that the ACMs associated with this plan have been properly abated. After a final visual inspection has been completed, the building shall be closed to prevent access pending demolition and warning signs shall remain in place until demolition begins.

12.0 Confirmation of Proper Asbestos Disposal

The property owner representative shall obtain confirmation of proper asbestos disposal from the contractor and provide copies to the RI Department of Health in accordance with Section C.1.3 (b) of the *RI Rules and Regulations for Asbestos Control*.

APPENDIX A

Bulk Sampling and Pre-Abatement Air Sampling Analytical Results

Brian Piccolo
Bock and Clark Environmental, LLC
889 Boston Neck Road
Narragansett, RI 02882

Project Number: 201800015

Project Name: 15 Tower Street, Westerly, RI

Date Sampled: 2018-02-01

Work Received: 2018-02-02

Work Analyzed: 2018-02-06

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
1A	Plaster Skim Coat	1st + 2nd Floor	white	Non-Fibrous 100	None Detected
331479					
1B	Plaster Skim Coat	1st + 2nd Floor	white	Non-Fibrous 100	None Detected
331480					
1C	Plaster Skim Coat	1st + 2nd Floor	white	Non-Fibrous 100	None Detected
331481					
2A	Plaster Base Coat	1st + 2nd Floors	gray	Non-Fibrous 100	None Detected
331482					
2B	Plaster Base Coat	1st + 2nd Floors	gray	Cellulose 2	None Detected
331483				Non-Fibrous 98	
2C	Plaster Base Coat	1st + 2nd Floors	gray	Cellulose 2	None Detected
331484				Non-Fibrous 98	
3A	Flooring Material	2nd + 3rd Floors	multi	Cellulose 45	None Detected
331485				Non-Fibrous 55	
3B	Flooring Material	2nd + 3rd Floors	multi	Cellulose 50	None Detected
331486				Non-Fibrous 50	
3C	Flooring Material	2nd + 3rd Floor	multi	Cellulose 45	None Detected
331487				Non-Fibrous 55	
4A	Plaster	3rd Floor	gray	Hair 10	None Detected
331488				Non-Fibrous 90	
4B	Plaster	3rd Floor	gray	Hair 15	None Detected
331489				Non-Fibrous 85	
4C	Plaster	3rd Floor	gray	Hair 5	None Detected
331490				Non-Fibrous 95	
5A	Floor Paper below Hardwood	1st Floor NE Room	red	Cellulose 98	None Detected
331491				Non-Fibrous 2	
5B	Floor Paper below Hardwoods	1st Floor NE Room	red	Cellulose 95	None Detected
331492				Non-Fibrous 5	

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
5C	Floor Paper below Hardwoods	1st Floor NE Room	red	Cellulose 98	None Detected
331493				Non-Fibrous 2	
6A	Green Flooring	1st Floor Closet NW Room	multi	Cellulose 50	None Detected
331494				Non-Fibrous 50	
6AM	Brown Mastic	1st Floor Closet NW Room	brown	Non-Fibrous 100	None Detected
331495					
6B	Green Flooring	1st Floor NW Room	multi	Cellulose 45	None Detected
331496				Non-Fibrous 55	
6BM	Brown Mastic	1st Floor NW Room	brown	Non-Fibrous 100	None Detected
331497					
6C	Green Flooring	1st Floor NW Room	multi	Cellulose 50	None Detected
331498				Non-Fibrous 50	
6CM	Brown Mastic	1st Floor NW Room	brown	Non-Fibrous 100	None Detected
331499					
7A	Bathroom Flooring	1st Floor	multi	Non-Fibrous 60	Detected Chrysotile 40
331500					
7AM	Mastic	1st Floor	yellow	Non-Fibrous 100	None Detected
331501					
7B	Bathroom Flooring	1st Floor			Not Analyzed
331502					
7BM	Mastic	1st Floor	yellow	Non-Fibrous 100	None Detected
331503					
7C	Bathroom Flooring	1st Floor			Not Analyzed
331504					
7CM	Mastic	1st Floor	yellow	Non-Fibrous 100	None Detected
331505					
8A	Gypsum Board	1st Floor Bathroom	gray	Cellulose 20	None Detected
331506				Non-Fibrous 80	
8B	Gypsum Board	1st Floor Bathroom	gray	Cellulose 20	None Detected
331507				Non-Fibrous 80	
8C	Gypsum Board	1st Floor Bathroom	gray	Cellulose 25	None Detected
331508				Non-Fibrous 75	
9A	Tile Glue	1st Floor Bathroom	tan	Non-Fibrous 100	None Detected
331509					
9B	Tile Glue	1st Floor Bathroom	tan	Non-Fibrous 100	None Detected
331510					

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
9C	Tile Glue	1st Floor Bathroom	tan	Non-Fibrous 100	None Detected
331511					
10A	Red Flooring	Kitchen	multi	Cellulose 30	None Detected
331512				Non-Fibrous 70	
10AM	Mastic	Kitchen	yellow	Non-Fibrous 100	None Detected
331513					
10B	Red Flooring	Kitchen	multi	Cellulose 40	None Detected
331514				Non-Fibrous 60	
10BM	Mastic	Kitchen	yellow	Non-Fibrous 100	None Detected
331515					
10C	Red Flooring	Kitchen	multi	Cellulose 40	None Detected
331516				Non-Fibrous 60	
10CM	Mastic	Kitchen	yellow	Non-Fibrous 100	None Detected
331517					
11A	TSI Paper	Basement	white	Cellulose 30	Detected Chrysotile 60
331518				Non-Fibrous 10	
11B	TSI Paper	Basement			Not Analyzed
331519					
11C	TSI Paper	Basement			Not Analyzed
331520					
12A	Transite Board	Basement	gray	Non-Fibrous 80	Detected Chrysotile 20
331521					
12B	Transite Board	Basement			Not Analyzed
331522					
12C	Transite Board	Basement			Not Analyzed
331523					
13A	Gypsum Board	Apartment Addition	gray	Cellulose 20	None Detected
331524				Non-Fibrous 80	
13B	Gypsum Board	Apartment Addition	gray	Cellulose 15	None Detected
331525				Non-Fibrous 85	
13C	Gypsum Board	Apartment Addition	gray	Cellulose 20	None Detected
331526				Non-Fibrous 80	
14A	Joint Compound	Apartment Addition	white	Non-Fibrous 100	None Detected
331527					
14B	Joint Compound	Apartment Addition	white	Non-Fibrous 100	None Detected
331528					

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
14C	Joint Compound	Apartment Addition	white	Non-Fibrous 100	None Detected
331529					
15A	Cream Flooring	Apartment Addition	multi	Cellulose 50	None Detected
331530				Non-Fibrous 50	
15AM	Mastic	Apartment Addition	yellow	Non-Fibrous 100	None Detected
331531					
15B	Cream Flooring	Apartment Addition	multi	Cellulose 50	None Detected
331532				Non-Fibrous 50	
15BM	Mastic	Apartment Addition	yellow	Non-Fibrous 100	None Detected
331533					
15C	Cream Flooring	Apartment Addition	multi	Cellulose 40	None Detected
331534				Non-Fibrous 60	
15CM	Mastic	Apartment Addition	yellow	Non-Fibrous 100	None Detected
331535					
16A	Hardwood Pattern Flooring	Apartment Addition	multi	Cellulose 45	None Detected
331536				Non-Fibrous 55	
16AM	Mastic	Apartment Addition	yellow	Non-Fibrous 100	None Detected
331537					
16B	Hardwood Pattern Flooring	Apartment Addition	multi	Cellulose 45	None Detected
331538				Non-Fibrous 55	
16BM	Mastic	Apartment Addition	yellow	Non-Fibrous 100	None Detected
331539					
16C	Hardwood Pattern Flooring	Apartment Addition	multi	Cellulose 40	None Detected
331540				Non-Fibrous 60	
16CM	Mastic	Apartment Addition	yellow	Non-Fibrous 100	None Detected
331541					
17A	Building Paper	Exterior	black	Cellulose 80	None Detected
331542				Non-Fibrous 20	
17B	Building Paper	Exterior	black	Cellulose 80	None Detected
331543				Non-Fibrous 20	
17C	Building Paper	Exterior	black	Cellulose 85	None Detected
331544				Non-Fibrous 15	
18A	Window Glazing	Windows	gray	Non-Fibrous 100	None Detected
331545					
18B	Window Glazing	Windows	gray	Non-Fibrous 100	None Detected
331546					

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
18C	Window Glazing	Windows	gray	Non-Fibrous 100	None Detected
331547					
19A	Asphalt Roof Shingle	Roof	black	Fiberglass 30	None Detected
331548				Non-Fibrous 70	
19B	Asphalt Roof Shingle	Roof	black	Fiberglass 30	None Detected
331549				Non-Fibrous 70	
19C	Asphalt Roof Shingle	Roof	black	Fiberglass 35	None Detected
331550				Non-Fibrous 65	
20A	Top Layer Roofing	Rear Flat Roof	black	Synthetic 25	None Detected
331551				Non-Fibrous 75	
20B	Top Layer Roofing	Rear Flat Roof	black	Synthetic 30	None Detected
331552				Non-Fibrous 70	
20C	Top Layer Roofing	Rear Flat Roof	black	Synthetic 20	None Detected
331553				Non-Fibrous 80	
21A	Bottom Layer Roofing	Rear Flat Roof	black	Fiberglass 30	None Detected
331554				Non-Fibrous 70	
21B	Bottom Layer Roofing	Rear Flat Roof	black	Fiberglass 25	None Detected
331555				Non-Fibrous 75	
21C	Bottom Layer Roofing	Rear Flat Roof	black	Fiberglass 25	None Detected
331556				Non-Fibrous 75	
22A	Black Sealant	Rear Flat Roof	black	Non-Fibrous 100	None Detected
331557					
22B	Black Sealant	Rear Flat Roof	black	Non-Fibrous 100	None Detected
331558					
22C	Black Sealant	Rear Flat Roof	black	Cellulose 18	Detected Chrysotile 2
331559				Non-Fibrous 80	
23A	Top Layer Roofing	Side Flat Roof	black	Cellulose 30	Detected Chrysotile 2
331560				Other 3 Non-Fibrous 65	
23B	Top Layer Roofing	Side Flat Roof			Not Analyzed
331561					
23C	Top Layer Roofing	Side Flat Roof			Not Analyzed
331562					
24A	Bottom Layer Roofing	Side Flat Roof	black	Non-Fibrous 70	Detected Chrysotile 30
331563					
24B	Bottom Layer Roofing	Side Flat Roof			Not Analyzed
331564					

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
24C	Bottom Layer Roofing	Side Flat Roof			Not Analyzed
331565					
25A	Asphalt Roofing	Front Porch	black	Cellulose 28	Detected
331566				Non-Fibrous 70	Chrysotile 2
25B	Asphalt Roofing	Front Porch			Not Analyzed
331567					
25C	Asphalt Roofing	Front Porch			Not Analyzed
331568					

Tuesday 06 February

Analyzed by:

Michael Thum

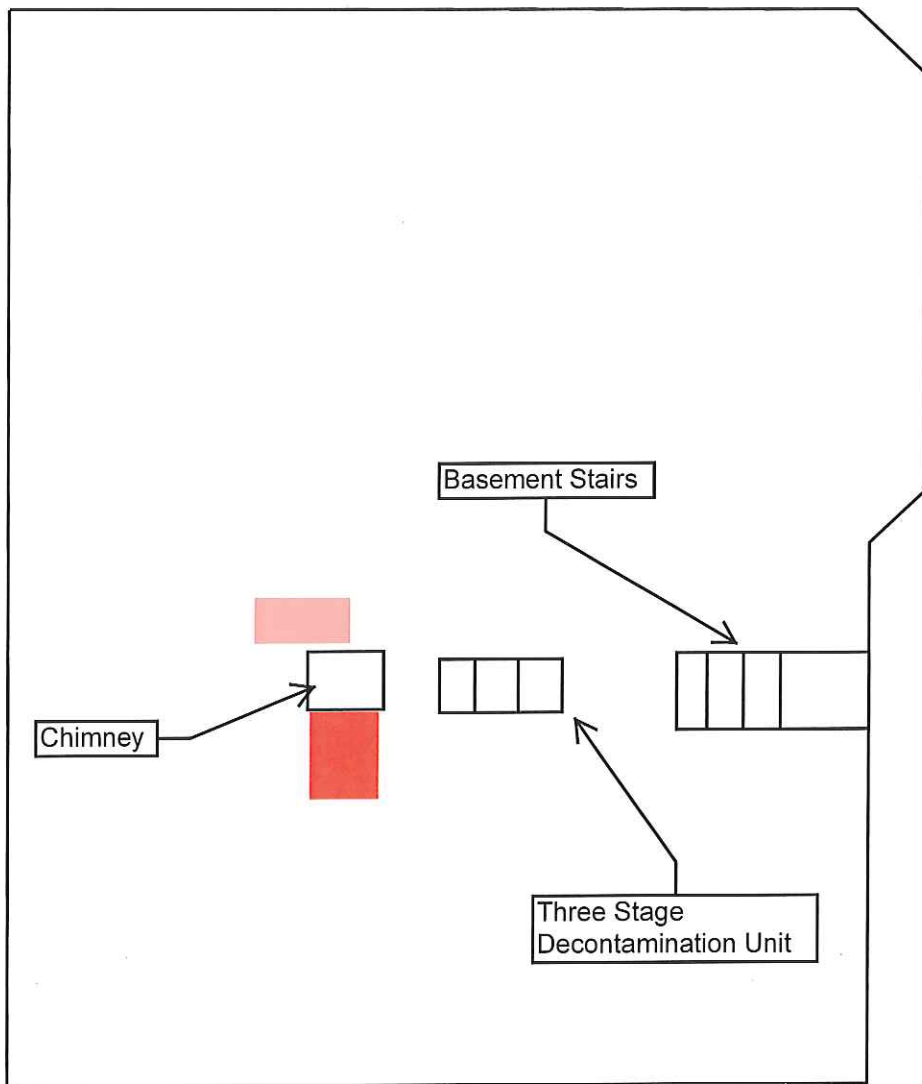
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APPENDIX B

Figures

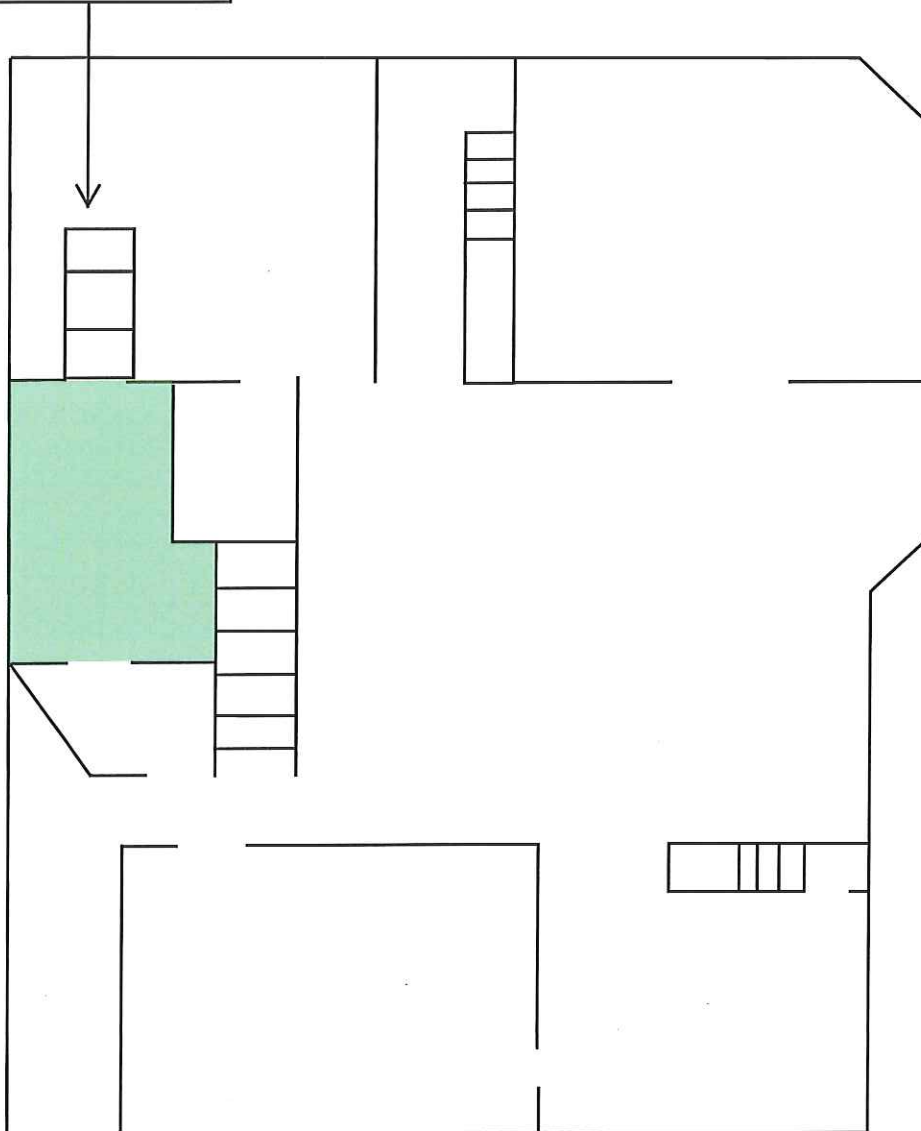


 = TSI Paper
 = Transite Panels

Figure 1

15 Tower Street
Westerly, RI

Three Stage
Decontamination Unit




 = Bathroom Flooring

Figure 2

15 Tower Street
Westerly, RI




 = Roofing
 = Roof Sealant

Figure 3

15 Tower Street
Westerly, RI

APPENDIX C

RI Rules and Regulations for Asbestos Control – B.8.1-B.8.3, B.8.6 and B.8.8 Work Practice Requirements

B.8 WORK PRACTICE REQUIREMENTS

B.8.1 *Applicability*

Any Asbestos Abatement Contractor that engages in any Asbestos Abatement Project that involves greater than ten (10) linear feet (three (3) meters) of pipe covered or coated with asbestos containing material or twenty five (25) square feet (three (3) square meters) of asbestos containing material used to cover or coat any surface other than pipe shall comply with the work practices contained in Subpart B.8 of these regulations and any additional work practice requirements contained in the asbestos abatement plan approved for that project by the Director of Health. Specific requirements for Category I and Category II Nonfriable ACM that is not Regulated Asbestos Containing Material (RACM) are contained in Sections B.8.8 through B.8.10 of these regulations.

B.8.2 *General Requirements for Removal, Encapsulation and/or Enclosure of Regulated Asbestos Containing Material (RACM)*

- (a) Barriers to isolate contaminated from uncontaminated areas shall be constructed of polyethylene sheeting attached securely in place.
- (b) All surfaces shall be wet cleaned of dust or debris. Wet cleaning of contaminated items shall be performed if necessary. All movable objects shall be removed from the work area. All non-movable objects in the work area shall be covered with 6-mil polyethylene sheeting secured in place. All openings or penetrations between the work area and uncontaminated areas shall be sealed, including windows, doorways, elevator openings, corridor entrances, drains, ducts, grills, grates, diffusers and skylights.
- (c) Floor sheeting shall consist of two (2) layers of 6-mil polyethylene sheeting. Floor sheeting shall extend up sidewalls at least twelve (12) inches and be sized to minimize seams. No seams shall be located at wall/floor joints.
- (d) Wall sheeting shall consist of two (2) layers of 4-mil polyethylene sheeting. It shall be installed to minimize joints and shall extend beyond wall/floor joint at least twelve (12) inches. No seams shall be located at wall/wall joints.

- (e) A worker decontamination enclosure system, consisting of a clean room, shower room and equipment room, each separated from each other and from the work area by airlocks and accessible through doorways protected with two (2) overlapping polyethylene sheets, shall be provided in accordance with OSHA 29 CFR 1926.58(j). Procedures for the utilization of this system shall be established which prevent contamination of areas outside the work area.
- (f) All HVAC equipment in or passing through the work area shall be shut down and locked out. All intake and exhaust openings, as well as any seams in system components shall be sealed with 6-mil polyethylene sheeting and/or tape. All system filters shall be replaced at the conclusion of the abatement and disposed of as asbestos waste. The ventilation system ductwork interiors shall be decontaminated whenever necessary.
- (g) *Posting*
 - (1) Warning signs in accordance with OSHA 29 CFR 1926.58(k) shall be displayed at all approaches to any location where airborne fiber levels can be expected to exceed the Indoor Non-Occupational Air Exposure Standard established by Section A.3.1 of these regulations.
 - (2) Warning signs to advise the public of the location(s) within the building where any asbestos abatement activity is in progress shall be posted at all building entrances and at least one other conspicuous place per floor. These signs shall be of the same dimensions as the Warning/Danger signs required in Subparagraph B.8.2(g)(1) of these regulations.
 - (3) Warning signs in accordance with Section F.3.4 of these regulations shall be posted on vehicles used to transport Asbestos Containing Waste Materials during loading and unloading of the waste.
- (h) Clean-up procedures using HEPA vacuuming and wet cleaning techniques shall be performed following abatement. Wet cleaning shall be followed by HEPA vacuuming after surfaces have been allowed to dry. The sequence of wet cleaning and vacuuming shall be repeated at twenty four (24) hour intervals until no visible residue is observed in the work area.
- (i) Negative pressure ventilation units with HEPA filtration, in sufficient number to provide one (1) workplace air change every fifteen (15) minutes, shall be operated continuously from the time of barrier construction through the time acceptable final clearance air-monitoring results are obtained. These units shall exhaust filtered air to the outside of the building. Filtered air shall not be exhausted to uncontaminated interior spaces.
- (j) All Asbestos Containing Waste Materials shall be adequately wetted before being placed into containers for disposal.
- (k) Asbestos Containing Waste Materials shall be placed in impermeable containers for disposal. Metal or fiber drums with locking-ring tops shall be used when asbestos waste contains sharp edged components. Double polyethylene bags of at least 6-mil thickness and which can be securely sealed may be used for waste. Large components or structural members may be removed intact and contained in leak-tight wrapping, equivalent to at least two (2) layers of 6-mil polyethylene sheeting, secured with tape for disposal.
- (l) All containers, bags, drums and wrapped components shall be labeled so that labels have the appearance of or are constructed in accordance with USDOT 49 CFR 172, Subpart E and OSHA

29 CFR 1926.58(k). Each container, bag, drum or wrapped component shall also be labeled or tagged with the name and license number of the asbestos abatement contractor generating the waste, as well as the asbestos abatement project number and location at which the waste was generated.

- (m) Storage of asbestos waste containers awaiting transport to an authorized disposal facility shall be in a secured location to prevent access by unauthorized personnel.
- (n) Transport and disposal of asbestos waste shall be in accordance with the provisions of Appendix D to 40 CFR 763, Subpart E and USDOT 49 CFR 173.1300.
- (o) Disposal of Asbestos Containing Waste Materials. All Asbestos Containing Waste Materials shall be deposited as soon as is practical by the waste generator at:
 - (1) A waste disposal site operated in accordance with the provisions of 40 CFR 61.154, or equivalent regulations promulgated by a state or local NESHAP designee; or
 - (2) An EPA-approved site that converts RACM and Asbestos Containing Waste Materials into nonasbestos (asbestos-free) material according to the provisions of 40 CFR 61.155.
- (p) Access to work areas shall be controlled and posting requirements shall remain in effect until compliance with the air exposure standard has been verified by procedures outlined below:
 - (1) Samples shall be collected and analyzed in accordance with the procedures specified by NIOSH Method 7400 (most current Revision) for asbestos fibers in air or equivalent method;
 - (2) Air volumes shall be sufficient to accurately determine fiber concentrations to 0.01 fibers/cubic centimeter of air (f/cc) for fibers greater than five (5) microns in length or 300 nanograms per cubic meter. A minimum air volume of 1000 liters shall be sampled;
 - (3) Air sampling shall be conducted in representative locations with portable fans circulating air to simulate actual use conditions;
 - (4) An acceptable airborne fiber concentration, as established by clearance air monitoring shall not exceed 0.01 f/cc for fibers greater than five (5) microns in length or 300 nanograms per cubic meter; and
 - (5) Air sampling shall be conducted by a representative of the building owner who is not subject to the control or supervision of the Asbestos Abatement Contractor for the asbestos abatement plan.
 - (6) Notwithstanding the requirements contained in Subparagraphs B.8.2(p)(1)-(p)(5) above, control of access and posting requirements for buildings subject to the AHERA regulations shall remain in effect until compliance with Subparagraphs C.1.3(a)(5)-(8) of these regulations has been demonstrated.

B.8.3 *Specific Requirements for Removal of Regulated Asbestos Containing Material (RACM)*

- (a) All RACM shall be adequately wetted prior to removal. In addition, all RACM exposed during

cutting and disjoining operations shall be adequately wet and all RACM shall be kept adequately wet during stripping operations.

- (b) Components shall be removed intact or in large sections whenever possible and carefully lowered to the floor.
- (c) RACM shall be removed in small sections and containerized when adequately wet. At no time shall material be allowed to accumulate or become dry. Structural components shall be adequately wetted prior to being contained in leak-tight wrapping for disposal.
- (d) Material shall not be dropped or thrown to the floor level. For materials located at heights greater than fifty (50) feet above the floor, a dust-tight, enclosed chute shall be constructed to transport removed material to containers on the floor. RACM may be dropped to a raised scaffold or containerized at elevated levels for disposal. Materials greater than fifteen (15) feet above the floor shall be dropped onto inclined chutes or scaffolding or containerized at elevated levels for eventual disposal.
- (e) A coating of encapsulating agent shall be applied to any porous surfaces that have been stripped of RACM to securely seal any residual fibers that may be present. The encapsulating agent should be chosen so as to be compatible with subsequent coverings.
- (f) RACM is not required to be stripped from large facility components such as reactor vessels, large tanks, and steam generators if the following requirements are met:
 - (1) The component is removed, transported, stored, disposed of, or reused without disturbing or damaging the RACM.
 - (2) The component is encased in a leak-tight wrapping.
 - (3) The leak-tight wrapping is labeled according to Section F.3.4 of these regulations during all loading and unloading operations and during storage.
- (g) When the temperature at the point of wetting is below 0°C (32°F):
 - (1) The Asbestos Abatement Contractor need not comply with the wetting provisions of Paragraphs B.8.3(a) and (c).
 - (2) The Asbestos Abatement Contractor shall remove facility components containing, coated with, or covered with RACM as units or in sections to the maximum extent possible.
 - (3) During periods when wetting operations are suspended due to freezing temperatures, the Asbestos Abatement Contractor must record the temperature in the area containing the facility components at the beginning, middle, and end of each workday and keep daily temperature records available for inspection by the Agency during normal business hours at the asbestos abatement project site. The Asbestos Abatement Contractor shall retain temperature records for at least two years.

B.8.6 *Specific Requirements for Demolition of Structures Containing Asbestos*

- (a) Any demolition of a structure or portion of a structure which contains structural members, building materials or structural components composed of or covered by RACM shall be preceded by a removal of all such materials in accordance with Sections B.8.2 and B.8.3 of these regulations. Said removal must be completed before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal. Notwithstanding the foregoing, RACM need not be removed before demolition if:
 - (1) It is Category I nonfriable ACM that is not in poor condition and is not friable; or
 - (2) It is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition; or
 - (3) It was not accessible for testing and was, therefore, not discovered until after demolition began and, as a result of the demolition, the material cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos contaminated debris must be treated as Asbestos Containing Waste Material and adequately wet at all times until disposed of; or

- (4) It is Category II nonfriable ACM and the probability is low that the materials will become crumbled, pulverized, or reduced to powder during demolition.
- (b) For Emergency Asbestos Abatement Projects described in Paragraph A.4.2(c) of these regulations, adequately wet the portion of the facility that contains RACM during the wrecking operation.
- (c) If a facility is demolished by intentional burning, all RACM, including Category I and Category II nonfriable ACM, must be removed in accordance with these regulations before burning.
- (d) In lieu of the requirements specified in Paragraphs B.8.2(b), (c), (d), and (f) and B.8.3(e) of these regulations, Asbestos Abatement Contractors engaging in demolition activities shall comply with the following:
 - (1) Prior to beginning a demolition project, all doors, windows, floor drains, vents and other openings to the outside of the building and to areas within the building that do not contain asbestos materials shall be sealed off with 6-mil polyethylene sheeting and waterproof tape or equivalent acceptable to the Agency.
 - (2) If a structure is to be partially demolished, HVAC equipment in the demolition area or passing through it but servicing areas of the building which will remain, shall be shut down and locked out and thoroughly sealed with 6-mil polyethylene sheeting and waterproof tape.
 - (3) If the building owner proposes not to conduct clearance air sampling following asbestos abatement activities conducted for demolition purposes, the building owner must submit written justification to the Agency which describes how personnel who must occupy the building prior to demolition will be protected.
 - (4) All other requirements of Sections B.8.2 and B.8.3 of these regulations, unless specifically deleted in Paragraph B.8.6(d) of these regulations, shall apply to demolition abatement activities.

B.8.8 *Specific Requirements for Removal of Category I Nonfriable ACM - Asphalt Roofing Products*

- (a) All surfaces shall be wet cleaned of dust or debris. All movable objects shall be removed from the roof area. All openings or penetrations on the roof area and at least one level below the roof area shall be sealed, including windows, doorways, drains, ducts, grills, grates, diffusers and skylights.
- (b) Floor/ground sheeting shall consist of at least two (2) layers of 6-mil polyethylene sheeting and shall be utilized as follows:
 - (1) If the roof is pitched, sheeting shall be applied to the first horizontal surface below the work area and shall extend from the edge of the building to at least ten (10) feet away from the building. All material being abated shall be confined to the roof area.
 - (2) If the roof is flat, sheeting shall extend at least ten (10) feet away from the perimeter of the work area. When the edge of the roof is less than ten (10) feet from the perimeter of the work area, sheeting shall be applied in accordance with Paragraph B.8.9(b)(1) such that the outer edge of the sheeting is at least ten (10) feet from the perimeter of the work area.
- (c) All HVAC intake or exhaust vents on the roof area and at least one level below the roof area shall be shut down and locked out. All intake and exhaust openings, as well as any seams in system components shall be sealed with 6-mil polyethylene sheeting and/or tape.

- (d) A minimum of a two chambered worker decontamination enclosure system shall be provided on site in accordance with OSHA 29 CFR 1926.58, Appendix G. Procedures for the utilization of this system shall be established which prevent contamination of areas outside the roof area.
- (e) Warning signs shall be posted in accordance with Paragraph B.8.2(g) of these regulations.
- (f) Category I Nonfriable ACM shall be removed in small sections and containerized when wet. At no time shall material be allowed to accumulate or become dry.
- (g) Category I Nonfriable ACM shall not be dropped or thrown to the floor/ground level. For roofs at heights greater than fifty (50) feet above the floor/ground, a dust-tight, enclosed chute shall be constructed to transport removed Category I Nonfriable ACM to containers on the floor/ground. Category I Nonfriable ACM may be dropped to a raised scaffold or containerized at elevated levels for disposal.
- (h) All Category I Nonfriable ACM shall be adequately wetted before being placed into containers for disposal. Disposal shall be in accordance with Paragraphs B.8.2(k) through B.8.2(o) of these regulations.
- (i) A coating of encapsulating agent shall be applied to any porous surfaces that have been stripped of Category I Nonfriable ACM to securely seal any residual fibers that may be present. The encapsulating agent should be chosen so as to be compatible with subsequent coverings.
- (j) Clean-up procedures using HEPA vacuuming and wet cleaning techniques shall be performed following abatement.
- (k) Personnel air monitoring of Asbestos Abatement Workers, which demonstrates compliance with the provisions of OSHA 29 CFR 1926.58(f), may be used in lieu of the clearance air sampling requirements contained in Paragraph B.8.2(p) of these regulations.



SOAT Date 8/7/18
OIC BB 7/24/18
Department of Health

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July 17, 2018

Town of Westerly
Paul Corina
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Westerly, RI 02891

Plan Number: 79542

Dear Paul Corina :

This is in reference to the asbestos abatement plan which you submitted for: Residential Dwelling 15 Tower St Westerly, RI 02891.

It is our understanding that, since this is a demolition and pre-abatement air sampling has not been performed, the requirements of Paragraph B.4.4(a) and Part B.4.2 of the Rules and Regulations for Asbestos Control will be adhered to. Please note that references to OSHA 29 CFR 1926.58(H) should be amended to read OSHA 29 CFR 1926.1101.

The above referenced asbestos abatement plan is hereby approved as conforming to Part C of the Rhode Island Rules and Regulations for Asbestos Control.

Please note that a licensed asbestos abatement contractor shall submit an ASB-22 start work notification at least 10 working days before any on-site work begins at a planned asbestos project. In addition, a licensed site supervisor shall notify this office by telephone when the licensed asbestos contractor begins site preparation.

A "Confirmation of Receipt of Asbestos for Disposal" must be forwarded to this office within five (5) working days of receipt.

The above referenced asbestos abatement plan is hereby approved as conforming to Part C of the Rhode Island Rules and Regulations for Asbestos Control.

If you have any further questions concerning the above referenced asbestos abatement plan, please contact Erin Ferreira, 222-7777.

Sincerely,

Bonnie Cassani-Brandt
Asbestos, Lead, and Radon Program Manager
Center for Healthy Homes and Environment

Cc: Vincent Jacques
[5LdemoASB22]



Department of Health

Three Capitol Hill
Room 206
Providence, RI 02908-5097

401-222-5960
RI Relay 711
www.health.ri.gov

July 17, 2018

Town of Westerly
Paul Corina
45 Broad Street
Westerly, RI 02891

Plan Number: 79542

Dear Paul Corina :

This is in reference to the asbestos abatement plan which you submitted for:
Residential Dwelling 15 Tower St Westerly, RI 02891.

The above referenced asbestos abatement plan is hereby approved as conforming with Part C of the
Rhode Island Rules and Regulations for Asbestos Control.

A review of your request for a waiver of floor poly and clearance air sampling as described in the scope
of work has been approved by this office.

Please note that a licensed asbestos abatement contractor shall submit an ASB-22 start work notification
at least 10 working days before any on-site work begins at a planned asbestos project. In addition, a
licensed site supervisor shall notify this office by telephone when the licensed asbestos contractor begins
site preparation.

A "Confirmation of Receipt of Asbestos for Disposal" must be forwarded to this office within five (5)
working days of receipt.

If you have any further questions concerning the above referenced asbestos abatement plan, please
contact Erin Ferreira, 222-7777.

Sincerely,

Bonnie Cassani-Brandt
Asbestos, Lead, and Radon Program Manager
Center for Healthy Homes and Environment

[StandardPlanApprovalWithWaiver_cb1]